

Figure 1
Cell Z86Z811E

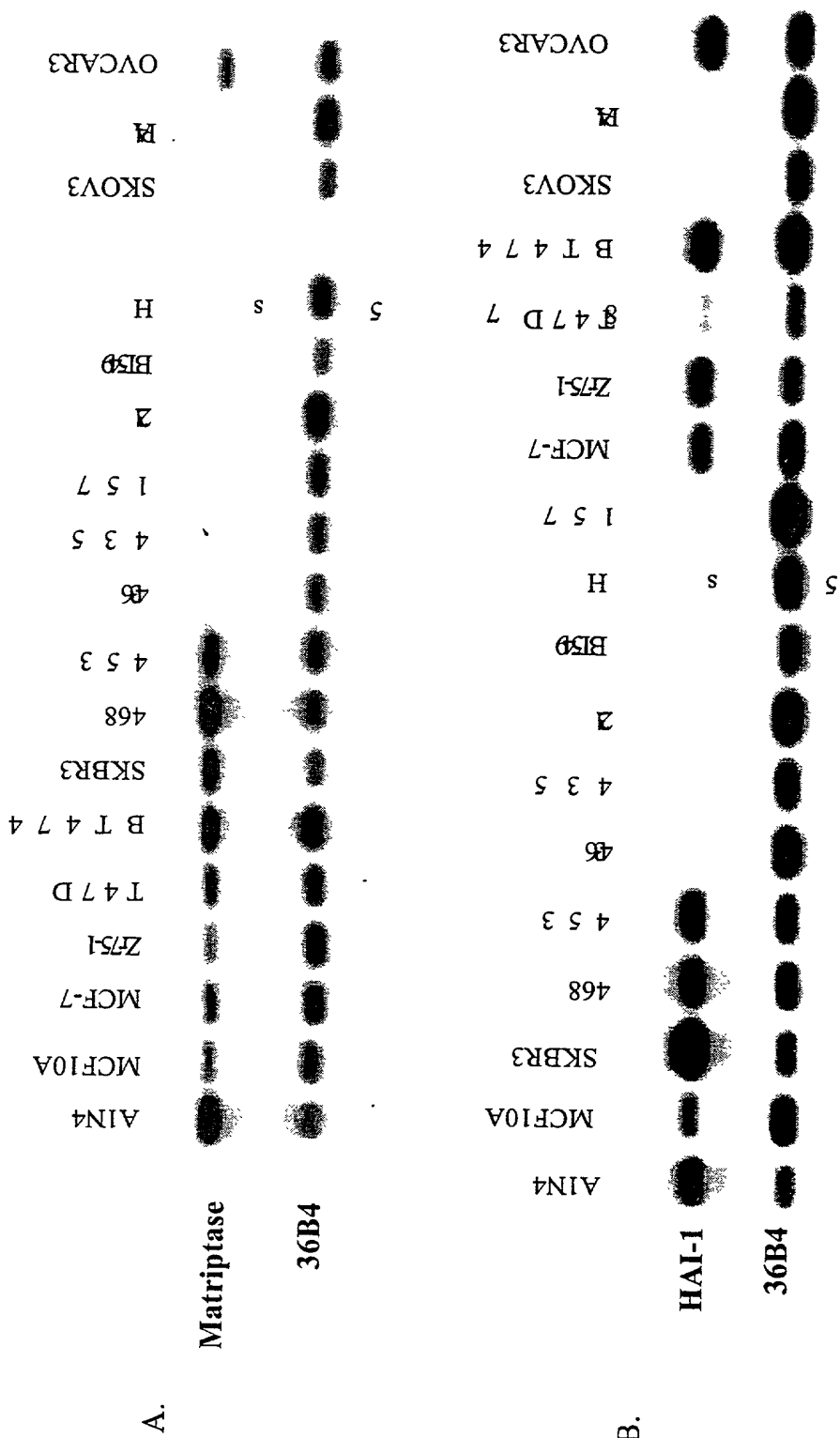


Figure 2

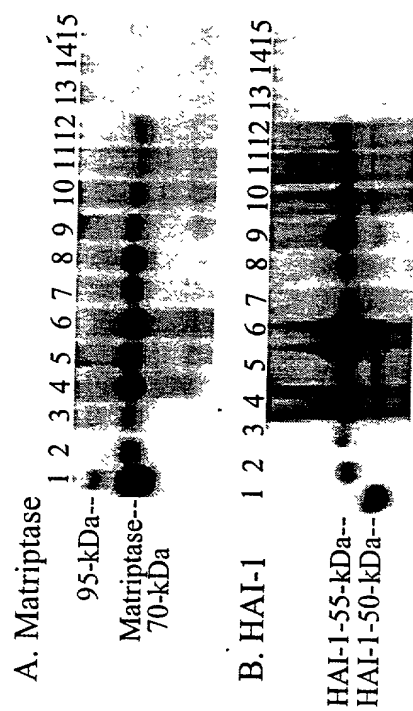


Figure 3 ZBBZBIII

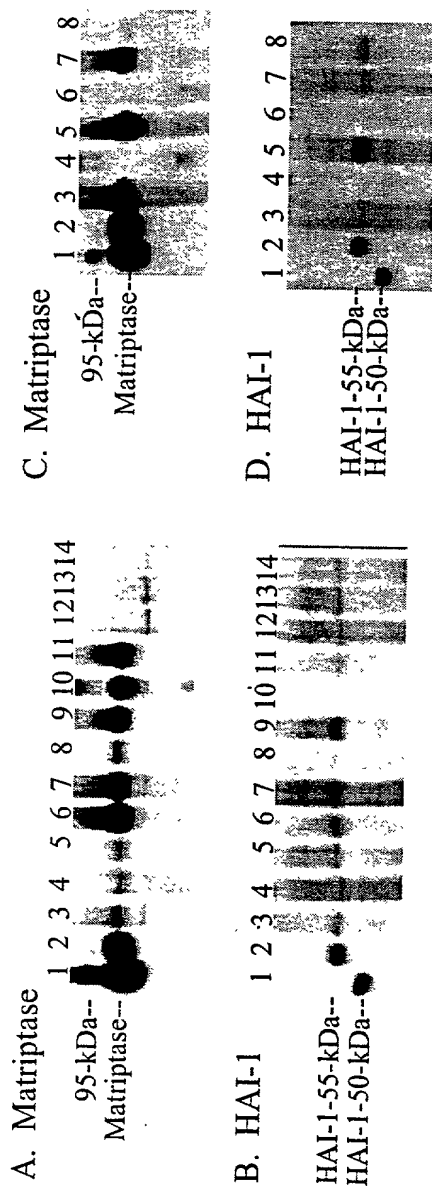


Figure 4

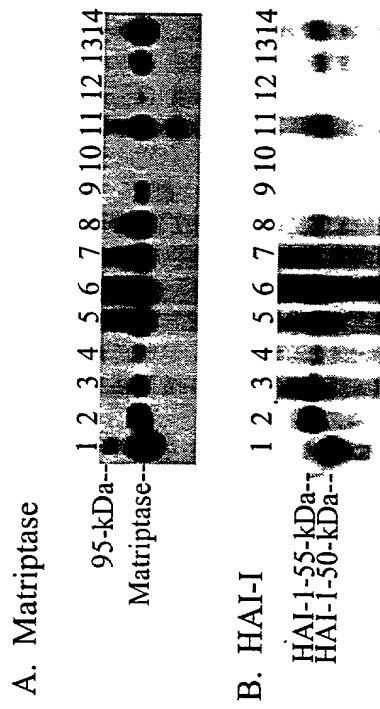


Figure 5

Matriptase



A.
Infiltrating
Carcinoma
100X



B. Infiltrating Carcinoma 400X



C.
Colloid
Carcinoma
400X

HAI-1

 \dot{D} 

၂၁



Li.

Figure 6a 2362300

Matriptase



A.

20X

HAI-1



C.

40X



B.

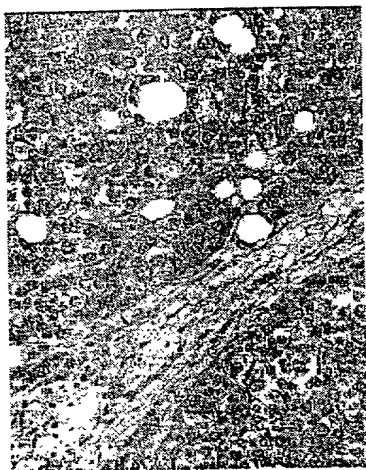
40X



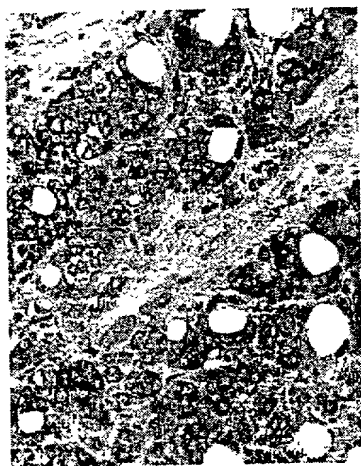
D.

200X

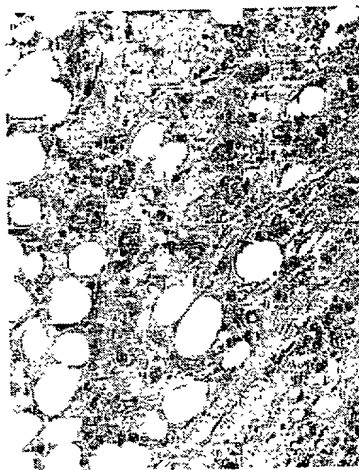
Figure 732333



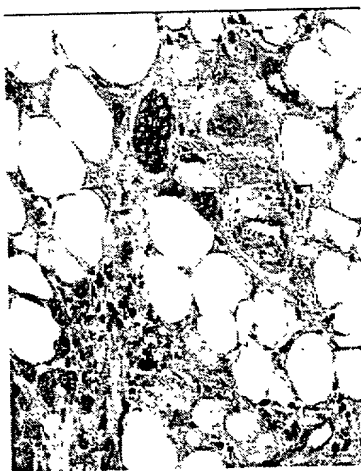
B.



A.



D.



C.

Figure 8

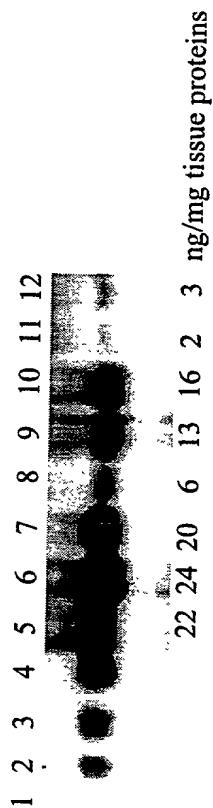


Figure 9

Table 1. Expression of Matriptase and HAI-1 in breast cancer cell lines and comparison with markers of differentiation and *in vitro* invasiveness.

Cell line	ER	Matriptase	HAI-1	E-cadherin	ZO-1	vimentin	<i>in vitro</i> invasion*
A1N4	-	+	+	NA	NA	NA	NA
MCF-10A	-	+	+	NA	NA	NA	NA
MCF-7	+	+	+	+	+	-	+
T47D	+	+	+	+	+	-	+
ZR-75-1	+	+	+	+	-	-	+
BT-474	+	+	+	+	-	-	+
SKBR3	-	+	+	-	+	-	+
MDA-MB-468	-	+	+	-	-	-	+
MDA-MB-453	-	+	+	-	-	-	+
MDA-MB-157	-	-	-	-	NA	NA	NA
MDA-MB-436	-	-	-	-	+	+	++
MDA-MB-435	-	-	-	-	-	+	++
MDA-MB-231	-	-	-	-	-	+	+++
BT-549	-	-	-	-	-	+	+++
Hs578t	-	-	-	-	-	+	+++

Table 1. Oberst, et al.

Figure 10

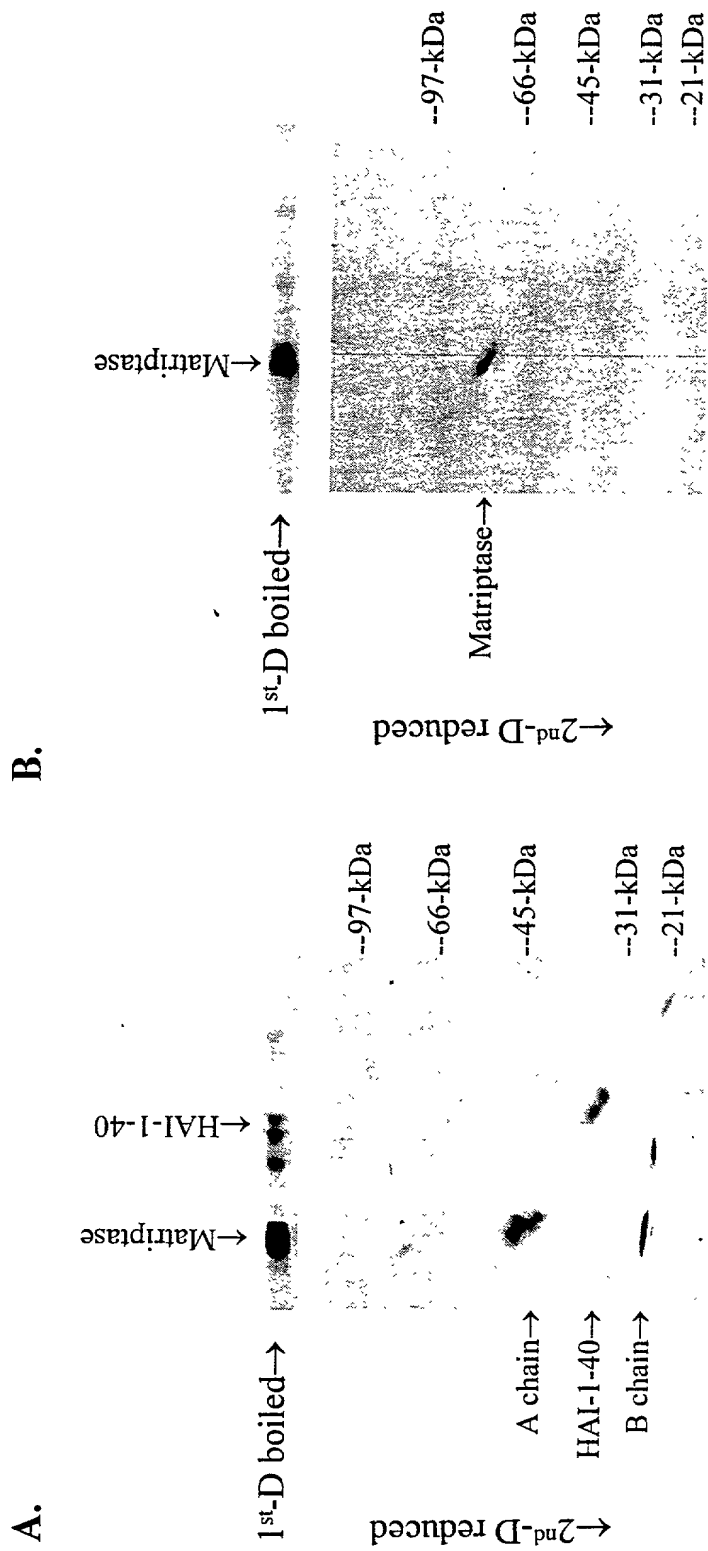


Figure 11

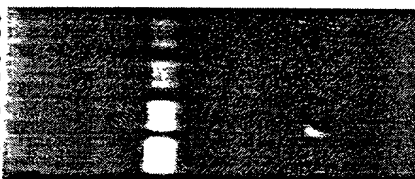
A. Immunoblot

0' 5' 30' 60'



B. Zymogram

0' 5' 30' 60'



C. Fluorimetric Assay

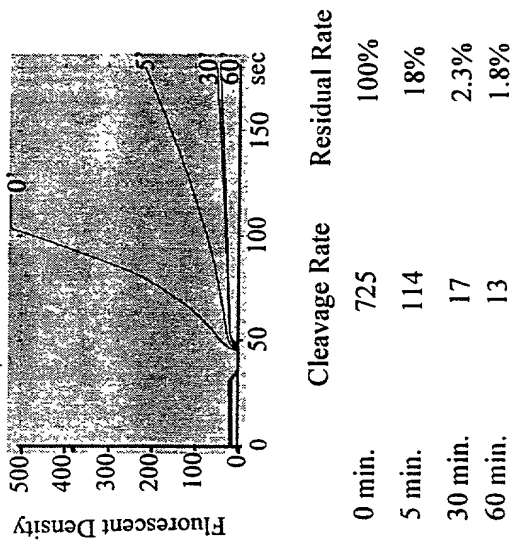


Figure 12

M32	M123	M69
1 2	3 4	5 6

97-kDa--

66-kDa--

46-kDa--



Figure 13

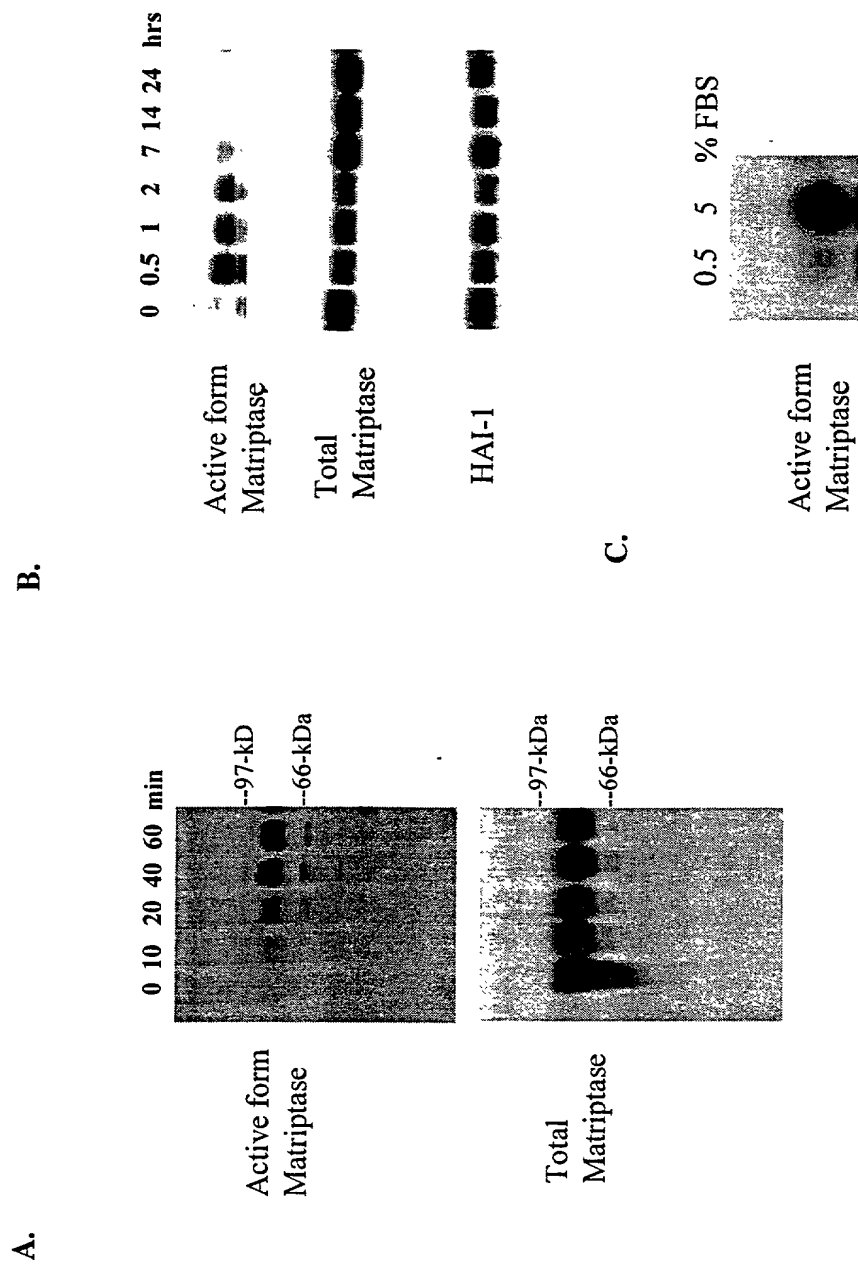


Figure 14

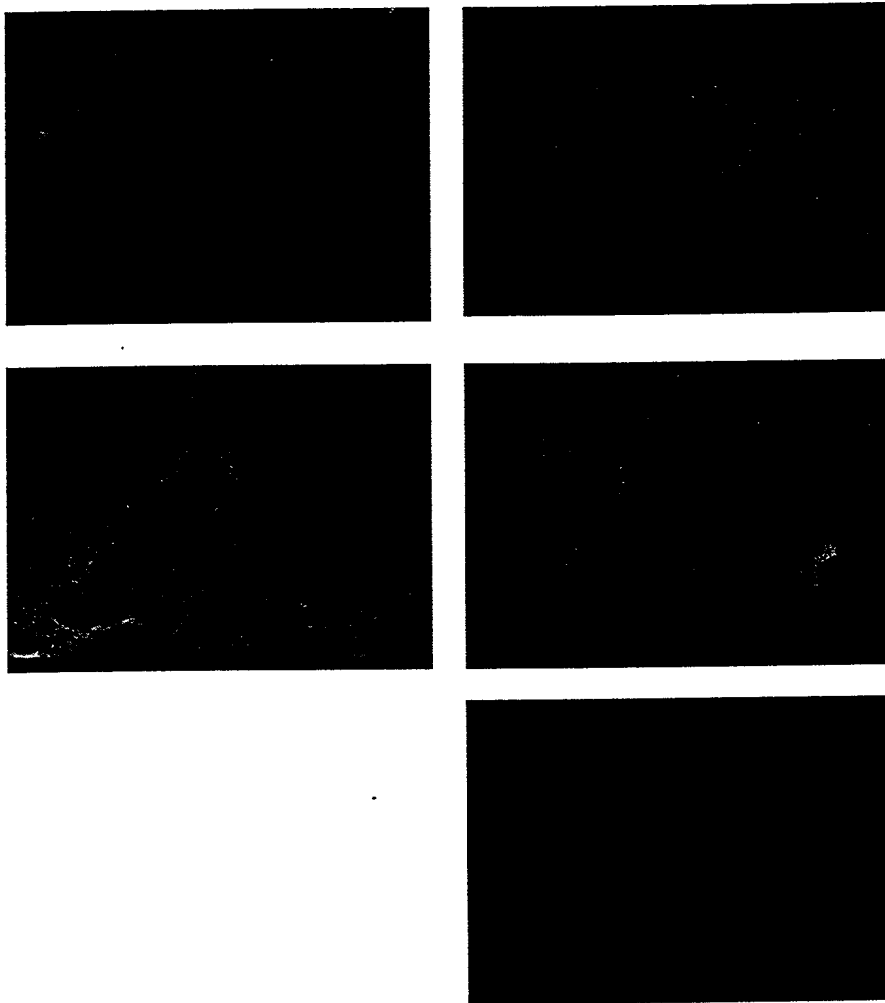


Figure 15

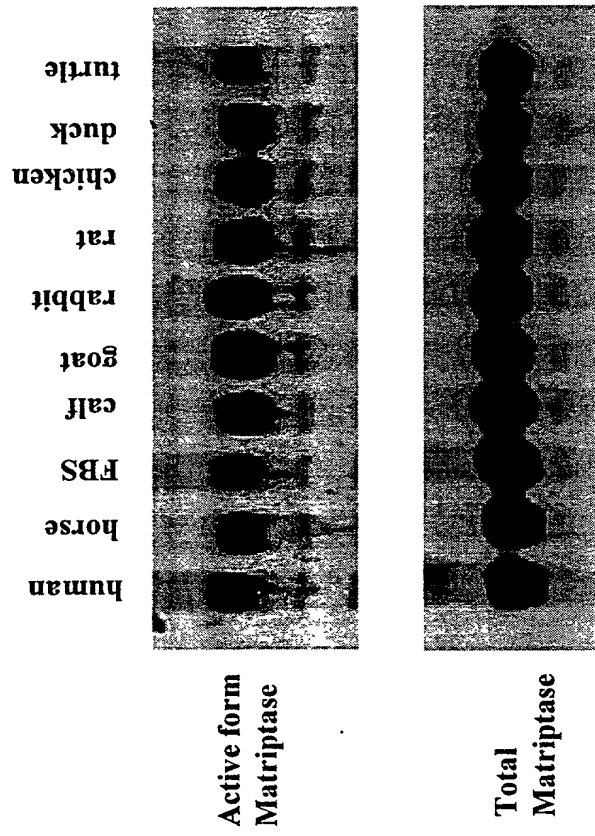


Figure 16

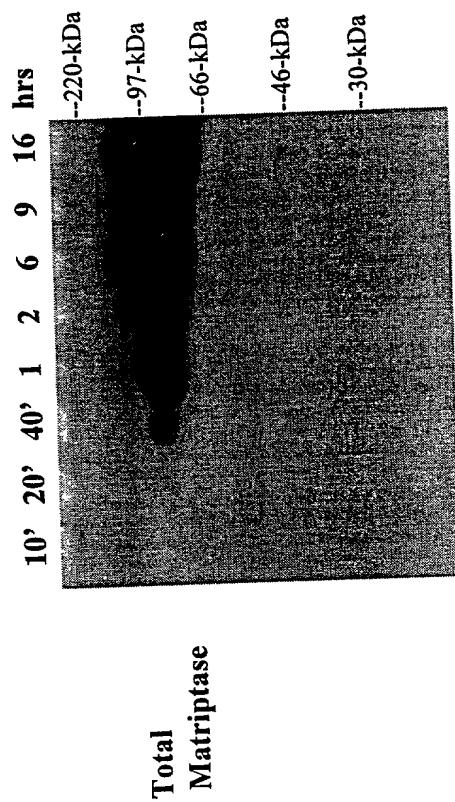
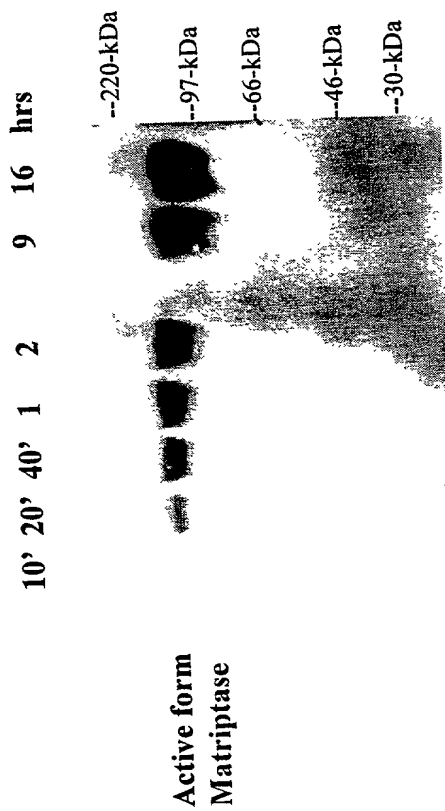
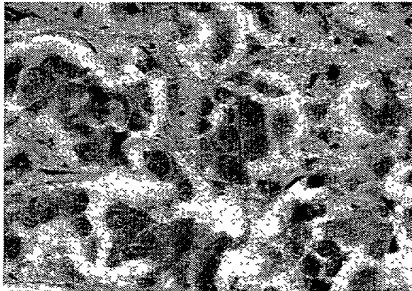


Figure 17

A. Activated Matriptase



B. Negative control

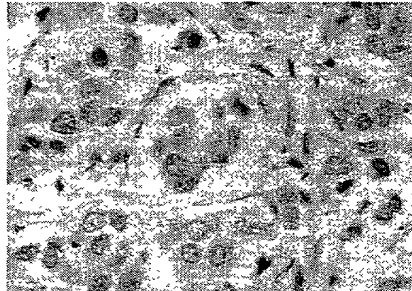


Figure 18

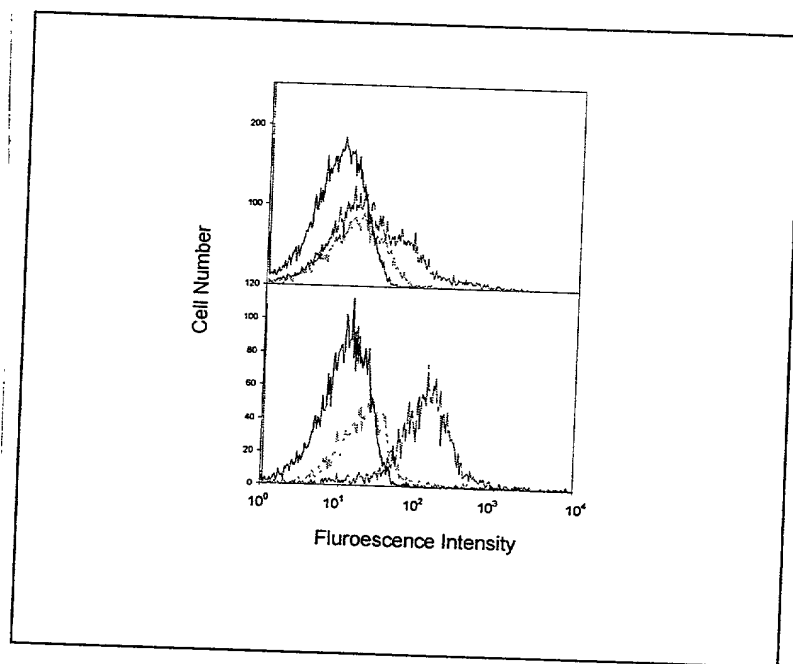


Figure 19

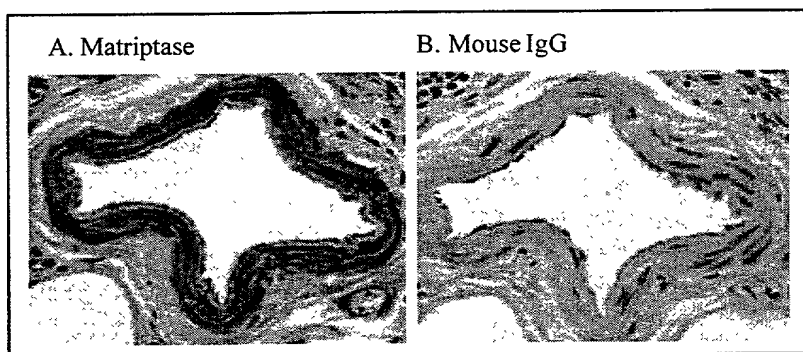


Figure 20

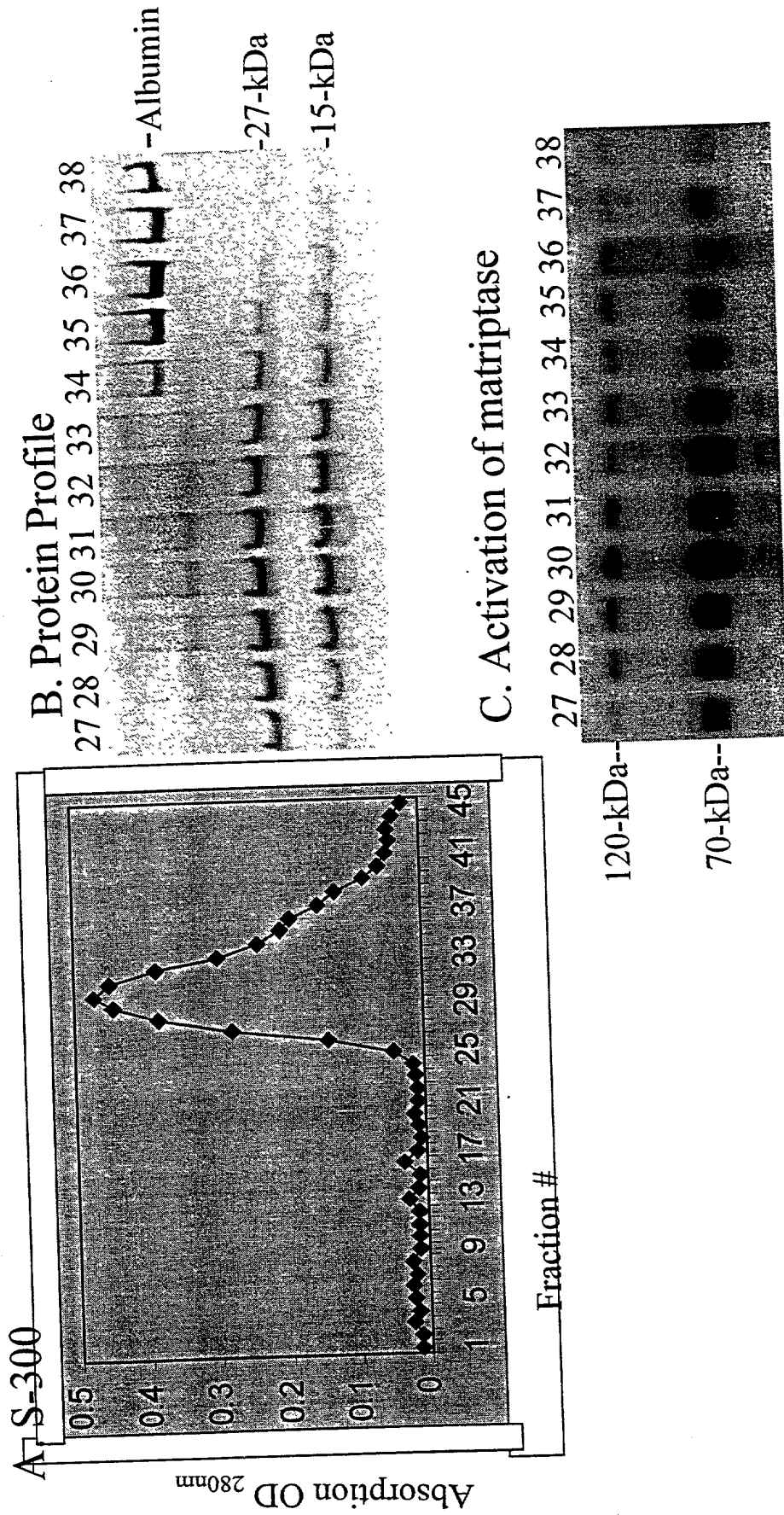


Figure 1

Figure 2

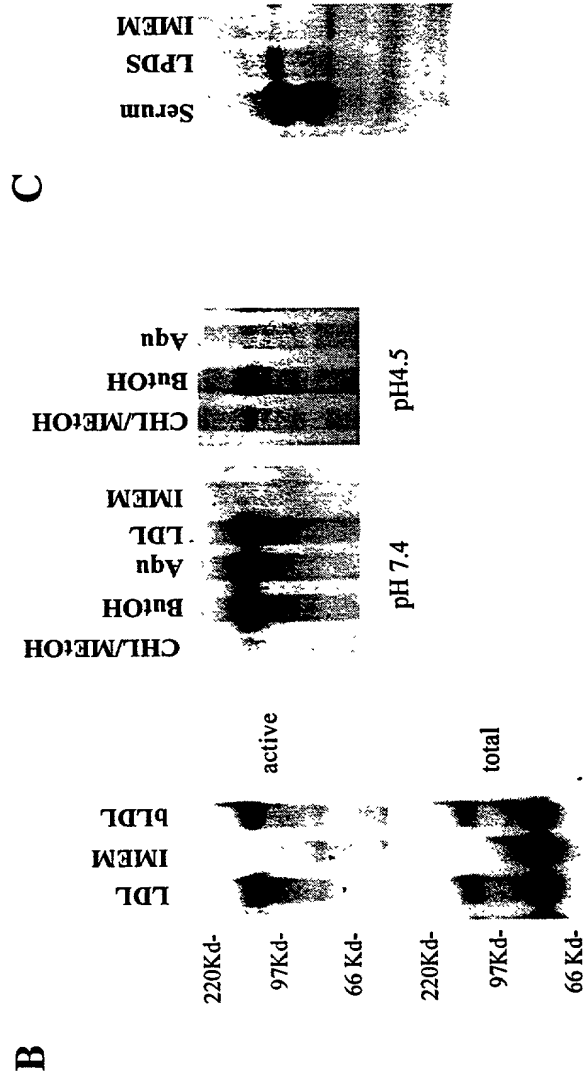
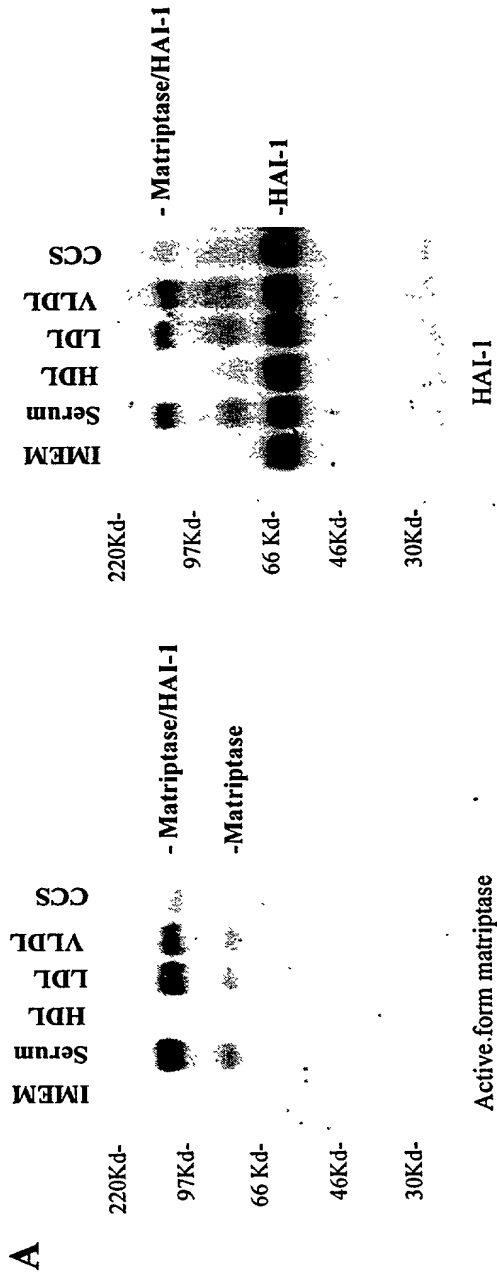
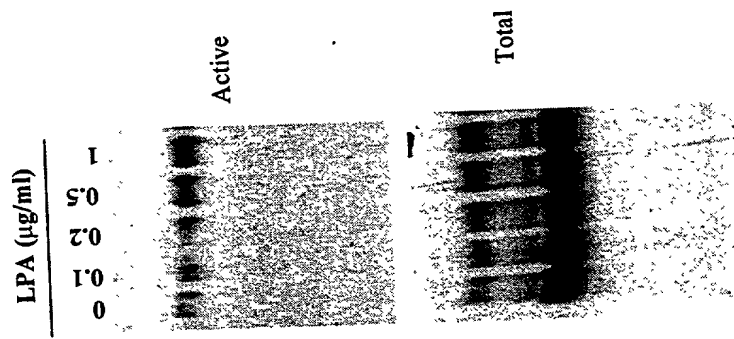
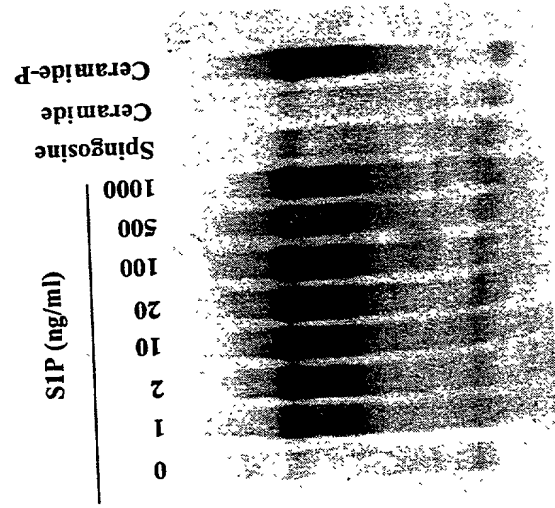


Figure 22

A



B



C

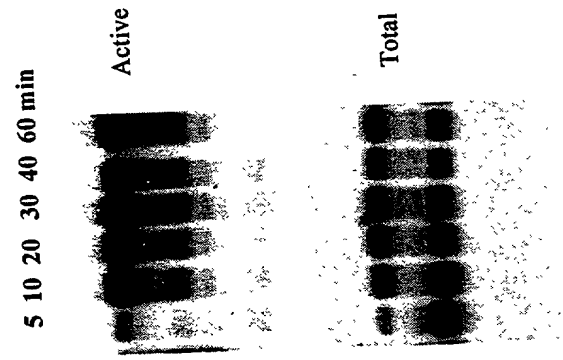
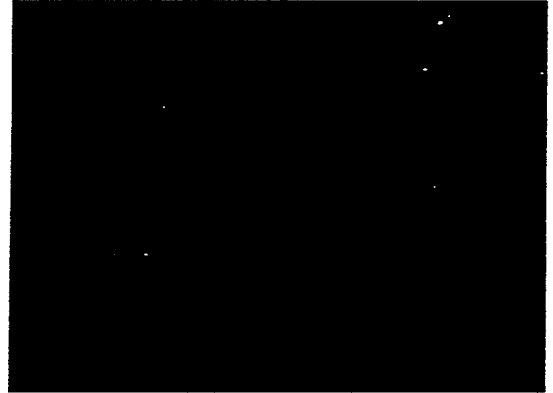
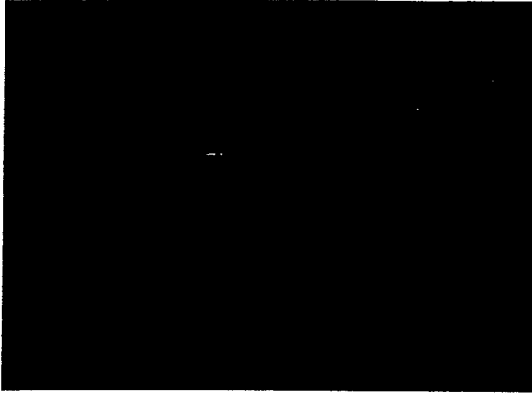
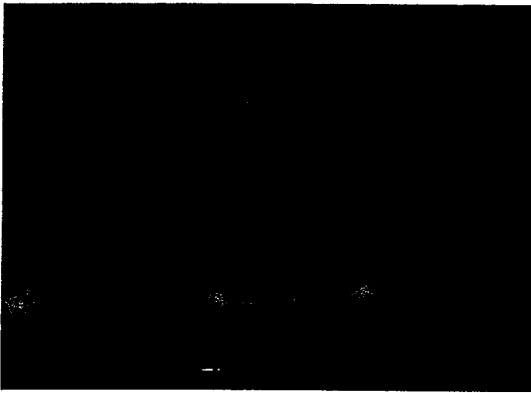


Figure 23

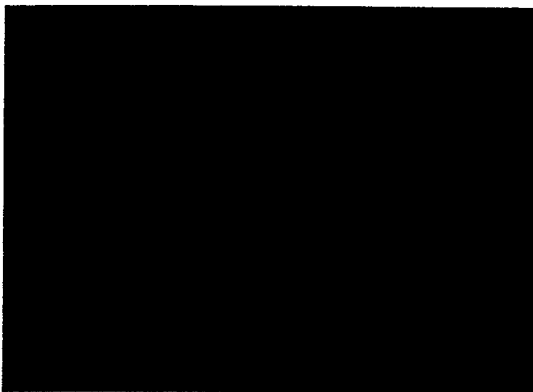
IMEM



LPA



S-1-P



Phalloidin

m69

Figure 24

Table 2:

	1ng/ml	10ng/ml	100ng/ml	500ng/ml	1µg/ml	2µg/ml
Lysophosphatidic acid	-	-	-	+/-	+	+
Lysophosphatidic choline	-	-	-	-	-	-
Lysophosphatidyl serine	-	-	-	-	-	-
Lysophosphatidyl inositol	-	-	-	-	-	-
lysophosphatidyl ethanolamine	-	-	-	-	-	-
Phosphatidic acid	-	-	-	-	-	-
Phosphatidyl choline	-	-	-	-	-	-
Shingosine 1 phosphate	+	+	+	+	+	+
Sphingosine					-	
Ceramide					-	
Ceramide 1 Phosphate	-	-	+/-	+	+	